TAIYO AMERICA, INC.

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CERTIFICATE OF ANALYSIS and CONFORMANCE

This is to certify that the following product has been inspected prior to sale and shipment, and complies with Taiyo America's manufacturing specifications for this product.

This product meets all the requirements of IPC-SM-840E Classes H and T and Bellcore (Telecordia) GR-78-CORE and is UL recognized 94V-0 (File #E166421, UL Name: PSR-4000DE).

Lot # 00 20 587 Mfg. Date: 2-05-20 PSR-4000HFX Satin Blue DI Warranty Ends: 11-05-20 **MANUFACTURING** TEST METHOD RESULT **PROPERTY SPECIFICATION** VISCOSITY Toki Sangyo RE100U Viscometer ps 5 rpms @ 25°C After mixing: 220 - 270 ps THIXOTROPIC INDEX Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm After mixing: Report Only FINENESS OF GRIND microns TAI-0-0002 5 microns maximum VISUAL EXAMINATION Microscopic examination: Passed No bubbles, pits, voids, 1. 1-mil drawdown of wet film particles, color differences. 2. Wet film drawdown on **Passed** No bubbles, pits, voids, particles, color differences. grind gauge **SCREENABILITY** Passed Visual inspection of screen No surface defects, printed panel such as bubbles, pinholes, etc. TACK-DRY **Passed** u Hot air convection oven Tack-free to the touch 80°C / 30 minutes **IMAGING** 14 ORC HMW 680GW - 7 kW Stouffer 21 step: 10 - 14 400 mJ / cm² (clear on copper) Horizontal Developer - 1% Na2CO3 30°C (86°F) / 60 secs., 28 psi RESISTANCE TO 260°C (500°F) / 30 sec x 1 cycle **Passed** W No discoloration, peeling, **SOLDERING** (*) Rosin-based flux or blistering SOLVENT **Passed** Immersion in PM Acetate No swelling, softening, **RESISTANCE** (*) 20°C / 20 mins. or blistering 8 H PENCIL HARDNESS (*) TAI-0-0020 6H or greater **Passed** ADHESION (*) W TAI-0-0021 100/100 on copper 2) 150°C (302°F) in a convection oven WARRANTY EXTENSION (*) - Final c This product has been retested by the Taiyo America Quality Verified By: Control department Title, Date and has been granted a warranty extension. Warranty period ends:

FRM-0-0271

12/05/20

Authorized By:

Luis Marquez

QC Supervisor

04/06/18